

flesh-red feldspar. In the feldspathic dyke, small narrow veins of specular iron ore occur, which appear to run either parallel with the dyke or slightly oblique to it, and the quartz vein and its subordinate *droppers* cut across both. Were this vein as conveniently situated as those of somewhat similar character on Lake Huron, it is fully as well worthy of trial as many that were selected by explorers there, some years ago, upon which to found claims for mining locations."

Mr. Richardson was fortunate in having as his field for exploration the remarkable and interesting island of Anticosti, which he found to consist of limestones representing the middle formations of the Silurian period, and dipping to the southward, giving a high and bold outline by their outcropping edges to the north coast, while at the south they dip gently, with a low shore, under the waters of the Gulf of St. Lawrence. These rocks are arranged by Mr. Richardson in six divisions, of which the following may serve as a general summary in ascending order :

	ft.	in.
(A) Grey limestone and argillaceous limestone, with greenish shale and conglomerate limestone, the highest bed containing some very singular impressions or animal tracks.....	229	0
(B) Gray, greenish-gray, and reddish-gray limestone, with shale and limestone conglomerate. In one of the limestones occurs a singular trunk-like fossil named <i>Beatricea</i> by Mr. Billings, along with corals and marine shells	730	0
(C) Argillaceous limestones, argillo-arenaceous shales, coral limestones. <i>Beatricea</i> occurs in these also....	306	3
(D) Ash-gray and reddish-gray limestones, bituminous limestones and shales, and measures unseen. Some of the limestones contain <i>Pentamerus</i>	480	0
(E) Gray and drab argillaceous and bituminous limestones, abounding in <i>Pentamerus</i> , <i>Atrypa reticularis</i> , <i>Calymene Blumenbachii</i> , and many other mollusks and trilobites.....	550	0
(F) Gray and yellowish granular limestone, with quantities of crinoidal remains and corals	69	0

Mr. Billings, on the evidence of the fossils, refers divisions A and B to the Hudson River groups, many of the most characteristic fossils of which are contained in them; but the presence of the genera *Catenipora*, *Favosites*, and *Ascoceras* indicates an approach to the Upper Silurian. Divisions C and D afford sev-